

538,566

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number
WO 2004/057876 A1

(51) International Patent Classification⁷: **H04N 7/64, 7/66**

(21) International Application Number:
PCT/IB2003/005870

(22) International Filing Date:
10 December 2003 (10.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/434,548 19 December 2002 (19.12.2002) US

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YE, Jong, Chul [US/US]; P.O. Box 3001, Briarcliff Manor, NY 10510-8001 (US). CHEN, Yingwei [US/US]; P.O. Box 3001, Briarcliff Manor, NY 10510-8001 (US).**

(74) Common Representative: **KONINKLIJKE PHILIPS ELECTRONICS N.V.; Intellectual Property & Standards, c/o Piotrowski, Daniel J., P.O. Box 3001, Briarcliff Manor, NY 10510-8001 (US).**

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

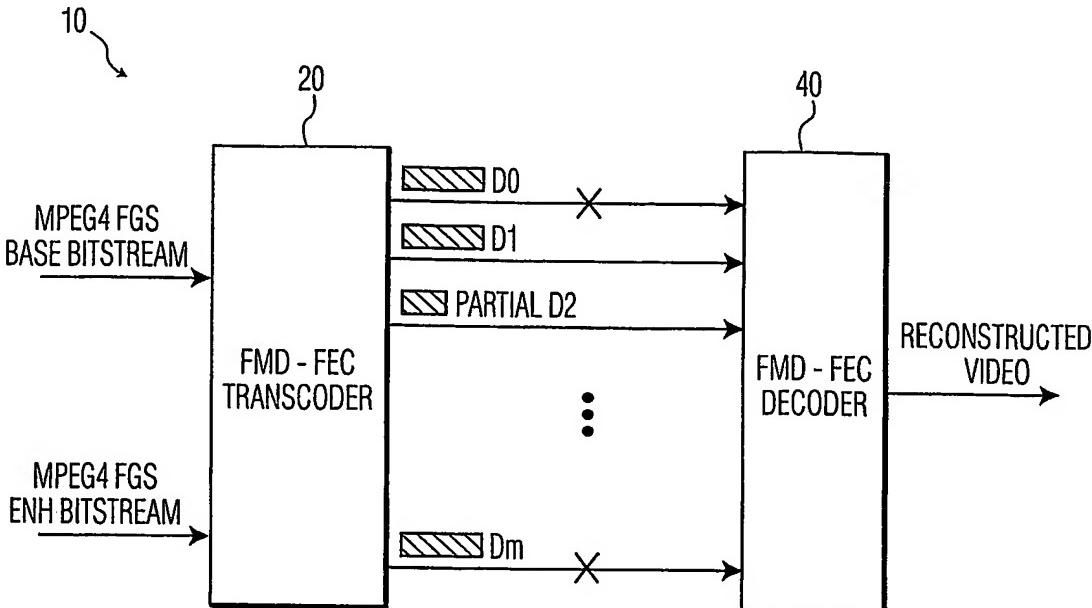
(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR DRIFT-FREE FRACTIONAL MULTIPLE DESCRIPTION CHANNEL CODING OF VIDEO USING FORWARD ERROR CORRECTION CODES



(57) Abstract: A system and method are disclosed that provide an improved encoding scheme where input video is encoded into a base layer and a enhancement layer according to a fine-granular scalability coding to generate a plurality of equal priority descriptions, then the generated descriptions are decoded by a decoder. The plurality of equal priority partitions is comprised of partitions generated from the base and enhancement layers and a forward error correction (FEC) code according to predetermined criteria.

WO 2004/057876 A1



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.